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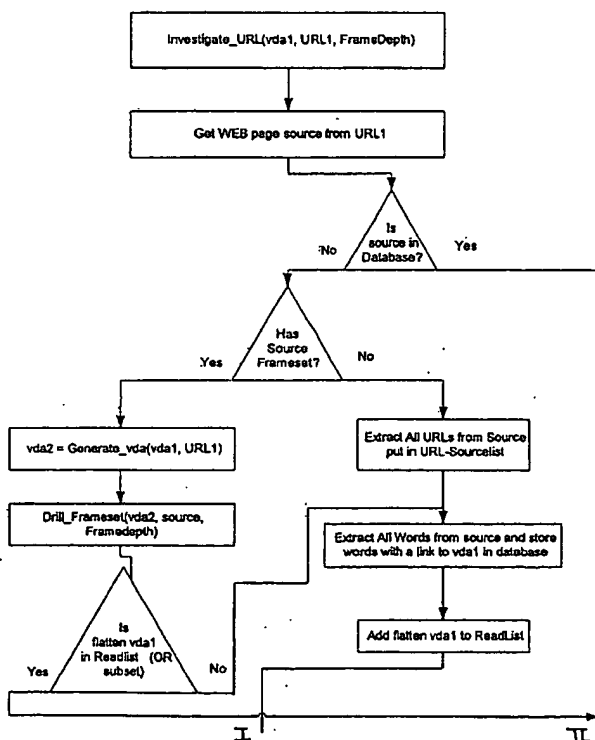
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European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR,

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(54) Title: A METHOD AND COMPUTER SYSTEM FOR CONSTRUCTING REFERENCES TO VIRTUAL DATA



(57) Abstract: The present invention relates to a method and a computer system enabling referencing to virtual data and in particular to a method and a computer system for constructing a reference to virtual data. In aspect of the present invention a virtual data argument for virtual data is provided. The virtual data argument comprises a data structure holding: at least one identifier each uniquely identifying one or more items of the virtual data, and at least one descriptor uniquely defining relationship between the item(s) identified by the identifier(s). The present invention is particular useful for indexing data, e.g. frame structures, which are not explicitly represented but constructed during execution of an application, e.g. a web-browser.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC7: G06F 17/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 0077686 A2 (SUN MICROSYSTEMS, INC), 21 December 2000 (21.12.00), the whole document --	1-34
X	EP 1054319 A2 (KOM INC), 22 November 2000 (22.11.00), column 3, line 30 - column 10, line 6, abstract --	1-14, 20-30, 33-34
A	EP 0542483 A1 (INTERNATIONAL BUSINESS MACHINES CORP), 19 May 1993 (19.05.93) --	1-34
A	WO 0041510 A2 (STORAGE TECHNOLOGY CORP), 20 July 2000 (20.07.00) --	1-34

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E,A	<p>US 6438559 B1 (WHITE, S.R.N. ET AL.), 20 August 2002 (20.08.02)</p> <p>-- -----</p>	1-34

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INTERNATIONAL SEARCH REPORT

Information on patent family members

02/09/02

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Patent document cited in search report			Publication date	Patent family member(s)		Publication date
WO	0077686	A2	21/12/00	AU	5478200 A	02/01/01
				US	6411956 B	25/06/02
EP	1054319	A2	22/11/00	CA	2308681 A	18/11/00
				US	6438642 B	20/08/02
				US	2002046320 A	18/04/02
EP	0542483	A1	19/05/93	CA	2055295 A	13/05/93
				JP	2625619 B	02/07/97
				JP	5225065 A	03/09/93
				US	5561778 A	01/10/96
				US	5579499 A	26/11/96
				US	5594881 A	14/01/97
				US	5652873 A	29/07/97
				US	5664160 A	02/09/97
				US	5687343 A	11/11/97
WO	0041510	A2	20/07/00	EP	1071989 A	31/01/01
				US	6330621 B	11/12/01
				US	2002032816 A	14/03/02
US	6438559	B1	20/08/02	NONE		